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**MAD Data Collection for the uvsY-ssDNA Complex**

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Beamline: X12C

**Introduction:** The recombination mediator protein uvsY plays a key role in the assembly of the recombination machinery in T4 phage infected *E. coli*, exchanging the uvsY recombinase for the gp32 on single-stranded DNA. Towards understanding this exchange mechanism, we have obtained crystals of uvsY complexed with ssDNA.

**Methods and Materials:** Cryogenically-protected uvsY - 5-bromo-ssDNA crystals were brought to beamline X12C for collection of a multiwavelength anomalous dispersion dataset.

**Results:** Data were collected at (bromine) peak and inflection wavelengths at the beamline, and subsequently at a low energy remote at the home source. We are in the process of locating the 48 bromines in the asymmetric unit.